



INFECTIOUS DISEASES (BACTERIAL, FUNGAL, VIRAL, PARASITIC, INFESTATIONS)

RISK FACTORS OF LEPROSY REACTION OCCURRENCE IN MOHAMMAD HOESIN GENERAL HOSPITAL PALEMBANG INDONESIA

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Introduction: Leprosy reaction is a condition of acute hypersensitivity reaction against *Mycobacterium leprae* that causes disruption in immunological equilibrium in chronic leprosy cases. Many factors are involved in leprosy reactions.

Objective: The aims of this study are to identify and analyze factors that may underlie leprosy reactions on leprosy patients in Mohammad Hoesin General Hospital Palembang, Indonesia.

Materials and Methods: This is a cross sectional-analytic observational study. Samples are taken from medical record of leprosy patients in Mohammad Hoesin General Hospital Palembang Indonesia from 2012 until 2017 who meets the inclusion criteria. Data was analyzed using univariate analysis and presented as frequency distribution table. Bivariate and multivariate analysis were also done to gain understanding of involving factors.

Results: This study includes 83 medical records of patients with leprosy meeting the inclusion criteria. There were 55 patients (66,4%) who experienced leprosy reactions. Factors that significantly influence leprosy reaction of patients are age at diagnosis ($p=0,018$), leprosy type ($p=0,008$) and bacterial index ($p=0,008$).

Conclusion: Age at diagnosis ($p=0,018$), leprosy type ($p=0,008$) and bacterial index ($p=0,008$) are determinant factors of leprosy reaction of patients, whereas associated treatment period, period of having leprosy, and gender were not determinant factors on the leprosy patient reactions.

